

**ABSTRACT**

A method and system (i) for improving the handing over of a connection from one SGSN (I) to another, i.e. when an MS (Mobile Station) moves from one SGSN service area to another, (ii) for not interrupting the packet transmission and possible layer 3 procedures, and (iii) for optimizing the  
5 network utilization without adding complexity to SGSN. Upon an inter SGSN routing area update, the old SGSN (I) is given the role as a temporary anchor, whereas the other (new) SGSN (II) is temporarily working as a serving SGSN.